

## **Certified 100% Organic Microalgae Growth is NOW Possible**

### **Chemical Free, Sterile, 100% Organic Herbal Microalgae Growth Medium Mixture**

**A NEW Patent Pending Organic Production Method of Microalgae in 100% Organic Vegetarian Growth Media Without Chemicals, Wastes, Manure, Compost, Microorganisms or GMO.**

USDA NOP is based on the 21st Oct 2005 USDA NOP Final Standards, which restricts use of nitrates as the Nitrogen source.

It was no longer possible to produce organic microalgae due to the latest restrictions. Chemicals, even though obtained from a natural deposit sources (such as Chilean Nitrate & Phosphate Salts) are forbidden to use since 2005.



Now the only sources of allowed nitrogen are organic nitrogen (urine, liquid manure, animal and vegetable waste). The introduction of these substances is very difficult due to the hygiene of the culture (problems of mud, of filtering the medium, etc.) and it would probably oblige pasteurizing the production. Natural and rough minerals (such as certain phosphates) can contain large contents of heavy metals (they too are completely natural) such as lead and especially uranium. The nitrate from Chile, for example, even though natural is forbidden due to the soluble nitrogen, for it is suspected that it will infiltrate into the ground and support environmental pollution.

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**BUT;**

**We use an organic herbal & vegetarian source of Nitrogen and Phosphorous for our Organic Microalgae Growth Media.**

- Premium Quality Chemical-Free Vegetarian Organic Production
- Higher Productivity Rates with 100% Herbal Fertilizers Than Standard Chemicals
- 100% Environmental Friendly Technique
- Ready To Use & Without Any Chemical Additions
- Low Cost of Growth Media for Mass Production
- Suitable for Global Organic Certification Standards
- Does not contain Synthetic Fertilizers, Pesticides, Food Additives
- Contains vegetarian organic herbs for all needs of microalgae species\* for premium quality & low cost organic production. (Also, without chemicals, wastes, manure, compost, GMO or non-GMO microorganisms, etc.)
- Does NOT Include Allergens Such As Grains, Gluten, Seeds, Nuts, Yeast, Animal Products, Microorganisms, etc.

\*(Tested & approved microalgae species are Spirulina platensis, Spirulina maxima, Chlorella sp., Chlorella protothecoides, Pleurochrysis carterae, Duniella sp.)



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## Organic vs. Natural

**Organic foods** are produced according to certain production standards, meaning they are grown without the use of conventional pesticides, antibiotics, hormones, artificial fertilizers, human waste, or sewage sludge and that they were processed without ionizing radiation or food additives. In most countries, organic produce must not be genetically modified.

**Natural food**, on the other hand, generally refers to food items that are not altered chemically or synthesized in any form. These are derived from plants and animals. Thus a natural food item is not necessarily organic and vice versa.

Given below is the difference between natural and organic food on different parameters:

Parameter	Organic Food	Natural Food
Definition	Organic food refers to items that are produced using organic means.	Natural food items are minimally synthesized.
Standards	Stringent standards for organic food production, handling and processing exist throughout the world.	Stringent standards do not exist for natural food products in many parts of the world.
Certification Bodies	Many countries have certification bodies, the most prominent being the United States Department of Agriculture (USDA).	The International Association of Natural Products Producers (IANPP) is trying to get the definitions for natural food into place. It should be noted that it is not a certification body.
Labels	Organic labels have legal implication. A manufacturer should follow the specified rules and regulations before using the organic label.	Natural labels are normally used freely by manufacturers due to lack of adequate guidelines.
Demand	Demand for organic food is more than the demand for natural food.	The demand for natural food is also increasing; however, not as much as organic food.
Health Benefits	There is no evidence to prove that organic food is healthier than non organic food. People prefer organic food because they feel it is safer than conventional food as chemicals are not used in its production. However, recent research on the health benefits of organic milk has boosted the spirits of organic food	People prefer natural food because they believe excessive processing of food items disturbs their health benefits.

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	lovers.	
Price	Organic food is priced more than non organic food.	Natural food is also priced more than non organic food
Shelf life	Shelf life of organic food is more than that of natural food. You can store it for a longer duration.	Since it is minimally processed in many food items, which have high water content, the shelf life is low.
Availability	Organic food is being sold in almost every super market. There are special stores selling organic food and one can purchase organic food online as well.	Natural food is available at many stores that sell organic food. There are some special stores that sell natural food. Further, many stores selling health food items also sell natural food products.

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